

We claim:

- Sub 1
1. A method for selectively delivering molecules to the nucleus of endothelium of the large vessels, comprising administering a conjugate of an agent binding selectively to endothelial protein C receptor (EPCR) and the molecule to be delivered to ~~large vessel endothelial cells~~
 2. The method of claim 1 wherein the conjugate is formed between the molecule to be delivered and an antibody to EPCR.
 3. The method of claim 1 wherein the conjugate is formed between the molecule to be delivered and activated protein C.
 4. The method of claim 1 wherein the conjugate comprises a chimeric antibody binding to the molecule to be delivered and to EPCR.
 5. The method of claim 1 wherein the molecule to be delivered is a nucleic acid molecule and ~~the nucleic acid molecule is a gene or cDNA under the control of a promoter which can be expressed in the nucleus of an endothelial cell~~
 6. The method of claim 1 wherein the molecule to be delivered is a nucleic acid molecule and the nucleic acid molecule is selected from the group consisting of triplex forming oligonucleotides, ribozymes, guide sequences for ribozymes, and antisense.
 7. The method of claim 1 wherein the molecule to be delivered is selected from the group consisting of drugs and diagnostic agents.
 8. The method of claim 1 wherein the molecule to be delivered is a protein.
 9. The method of claim 8 wherein the protein is a transcription factor.
 10. The method of claim 1 wherein the molecule to be delivered is coupled to the agent which binds to EPCR by molecules selected from the group consisting of streptavidin and biotin, and molecules having multiple positive charges.
- Sub 2
- Sub 3
- Sub C3

11. The method of claim 1 wherein the conjugate is administered to large vessel endothelial cells in culture or isolated from an individual.

12. The method of claim 1 wherein the conjugate is administered to an individual in need of treatment or diagnosis.

~~13. A conjugate of an agent binding selectively to endothelial protein C receptor (EPCR) and a molecule to be delivered to a large vessel endothelial cell.~~

14. The conjugate of claim 13 wherein the conjugate is formed with an antibody to EPCR, or a fragment or recombinant molecule based thereon, binding to EPCR.

15. The conjugate of claim 13 wherein the conjugate is formed between the agent to be delivered and activated protein C.

16. The conjugate of claim 13 wherein the molecule to be delivered is a nucleic acid molecule.

~~17. The conjugate of claim 16 wherein the nucleic acid molecule is a gene or cDNA under the control of a promoter which can be expressed in the nucleus of an endothelial cell.~~

18. The conjugate of claim 16 wherein the nucleic acid molecule is selected from the group consisting of triplex forming oligonucleotides, ribozymes, guide sequences for ribozymes, and antisense.

~~19. The conjugate of claim 13 wherein the molecule to be delivered is selected from the group consisting of drugs and diagnostic agents.~~

20. The conjugate of claim 13 wherein the molecule to be delivered is a protein.

21. The conjugate of claim 20 wherein the protein is a transcription factor.

22. The conjugate of claim 20 comprising a coupling means which binds the molecule to be delivered to the agent which binds EPCR.

22. The conjugate of claim 22 wherein the coupling means is a positively charged polymer or molecule.

24. The conjugate of claim 22 wherein the coupling means is streptavidin-biotin.

25. The conjugate of claim 13 comprising a chimeric antibody which binds to EPCR and to the molecule to be delivered.

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